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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/271,691	03/18/1999	CRAIG M. CONWAY	5150-30300	4606

7590

12/18/2002

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EXAMINER

VINCENT, DAVID ROBERT

ART UNIT

PAPER NUMBER

2661

DATE MAILED: 12/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/271,691

Applicant(s)

CONWAY, CRAIG M.

Examiner

David R Vincent

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2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                    | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____.  |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2,3</u> . | 6) <input type="checkbox"/> Other: .  |

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 21 recites the limitation "said second parallel bus" in line 2. There is insufficient antecedent basis for this limitation in claims 21 or 11.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conway (US 6,425,033 or 6,418,504) and further in view of Baker (US 6,434,649).

As shown in Figs. 1, 2-3, Conway discloses the same method and apparatus which comprises two parallel PCI buses and a serial bus such as the 1394 firewire bus, and the necessary bridges (Figs. 1, 2-3 and respective disclosure), as specified

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in claims 1-33. However, Conway fails to particularly call for the details of buffers and the address and data phases or byte enable packets/commands. Therefore, Conway fails to disclose using predetermined values for the byte enable values/packets.

Baker teaches various buffers (Fig. 7, or 10 and cols. 17, line 46-col. 20; col. 29-36) such as FIFOs (e.g., 716, Fig. 7; col. 7, lines 6-11; 764; col. 29, lines 20-63), pipeline control logic (Fig. 7 and respective disclosure; Fig. 8; col. 20, line 64-col. 22, line 6), and that it is well known to predetermine or predict the size of the data bursts that are about to be transmitted (cols. 13-16, especially Table 1), and therefore, Baker does teach the claimed limitations such as a first phase (address or request phase) which uses predetermined byte enable values (Table 1).

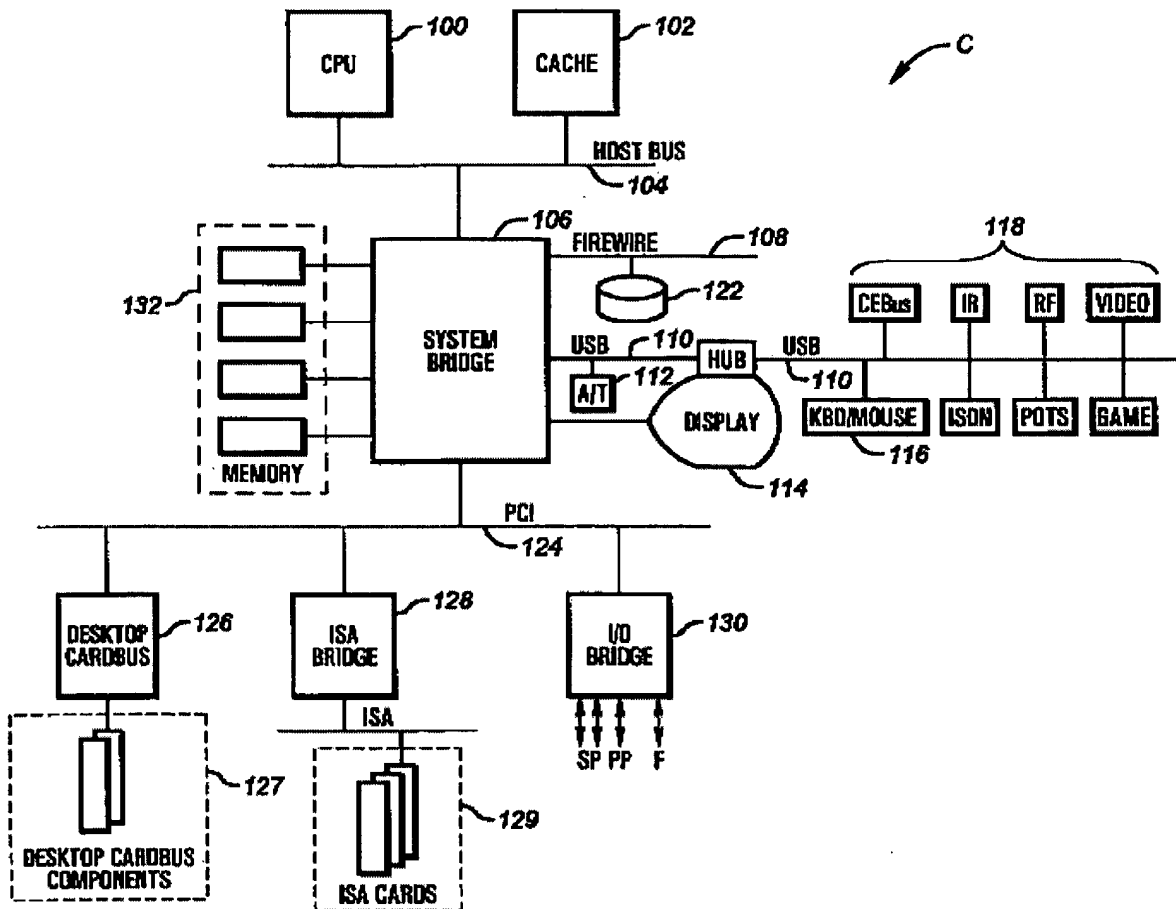
It would have been obvious to use the well known byte enable sizes so that the data can be sent more quickly.

***Claim Rejections - 35 USC § 103***

3. Claims 11-13, 16-20, 22-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Welker (US 6,076,139) or Tripathi (US 6,161,157) in view of Baker (US 6,434,649).

As shown in e.g., Fig. 1, Welker discloses the parallel/PCI to serial/1394 conversions.

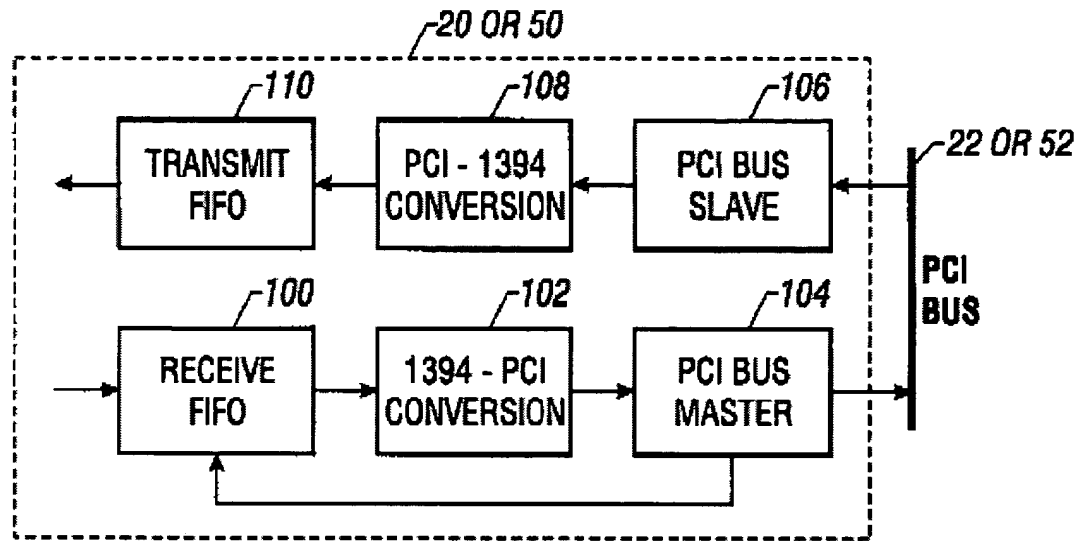
**6,076,139**



**FIG. 1**

As shown in Fig. 5 (see below) Tripathi discloses the parallel/PCI to serial/1394 conversions.

**6,161,157**

**FIG. 5**

However, Tripathi and/or Welker fail to disclose using predetermined values for the byte enable values/packets.

Baker teaches various buffers (Fig. 7, or 10 and cols. 17, line 46-col. 20; col. 29-36) such as FIFOs (e.g., 716, Fig. 7; col. 7, lines 6-11; 764; col. 29, lines 20-63), pipeline control logic (Fig. 7 and respective disclosure; Fig. 8; col. 20, line 64-col. 22, line 6), and that it is well known to predetermine or predict the size of the data bursts that are about to be transmitted (cols. 13-16, especially Table 1), and therefore, Baker does teach the claimed limitations such as a first phase (address or request phase) which uses predetermined byte enable values (Table 1).

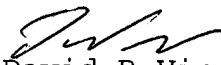
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It would have been obvious to use the well known byte enable sizes so that the data can be sent more quickly.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David R Vincent whose telephone number is 703 305 4957. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on 703 305 4703. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9314 for regular communications and 703 872 9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306 0377.

 12/12/02  
David R Vincent  
Primary Examiner  
Art Unit 2661

December 12, 2002